

Application No. 10/796,856
Reply to Office Action of June 26, 2007

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Docket No.: 65689DIV3(43382)

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AMENDMENTS TO THE CLAIMS

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1. (Currently amended) A method for analyzing specified properties of a set of substances, the method comprising:

- a. providing a platen having two substantially parallel planar surfaces, an inner layer of hydrophilic material and two outer layers of hydrophobic material coupled to opposite sides of the inner layer, and a two-dimensional array of addressable through-holes having an areal density of at least 1.6 through-holes per square millimeter[[,]];.
- b. retaining a set of distinct substances in respective through-holes of the array in such a manner that a first through-hole contains a first substance distinct from a second substance contained in an adjacent through-hole to the first through-hole;
- c. adding a liquid into at least one of the through-holes containing a substance for permitting a reaction between the liquid and the substance; and
- d. characterizing contents of distinct through-holes in terms of the specified properties.

2. (Original) A method according to claim 1, wherein the set of different substances includes a reagent.

3. (Original) A method according to claim 1, wherein the set of different substances comprises a library of at least 1000 substances.

4. (Original) A method according to claim 1, wherein the set of different substances include optical taggants.

5. (Original) A method according to claim 1, wherein the step of retaining the set of distinct substances further includes: loading the set of distinct substances in one of liquid solution and suspension; and forming coatings of the distinct substances so as to retain the distinct substances on walls of the through-holes.

6. (Original) A method according to claim 1, wherein the step of adding a liquid includes adding a liquid substantially uniformly to the through-holes of the array.

7. (Original) A method according to claim 6, wherein the step of adding a liquid includes resuspending the distinct substances in liquid by means of wetting.

8. (Original) A method according to claim 1, wherein the step of characterizing contents of distinct through-holes includes characterizing by optical methods.

9. (Original) A method according to claim 8, wherein the step of characterizing contents of distinct through-holes includes characterizing by fluorometric methods.

10. (Currently amended) A platen for retaining biological samples, the platen comprising:

a. an inner layer of hydrophilic material and two outer layers of hydrophobic material coupled to opposite sides of the inner layer;

b. a two-dimensional array of addressable through-holes having an areal density of at least 1.6 through-holes per square millimeter[.]; and

c. a set of distinct substances in respective through-holes of the array.

11. (Original) A platen according to claim 10, wherein distinct substances of the set of distinct substances are coated on walls of the through-holes.

12. (Currently amended) A platen according to claim 10, wherein distinct substances of the set of distinct substances are retained within through-holes of the platen by surface tension.